

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 7    | ((("4832124") or ("2005083228")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2011/02/28<br>05:43 |
| L2    | 3    | ("7111687").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2011/02/28<br>05:50 |
| L3    | 49   | vertical adj (line passage) same tree and subsea   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2011/02/28<br>06:00 |
| L4    | 4    | ("7201229").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2011/02/28<br>06:03 |
| L5    | 22   | ("20050028984"   "2233077"   "2790500"   "4099583"   "4291772"   "4813495"   "5280766"   "5971077"   "6457529"   "6457530"   "6460621"   "6651745"   "6698520"   "6823941"   "6851444"   "6966383"   "7210530"   "7270185"   "7569097"   "7647974").PN. OR ("7740074").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2011/02/28<br>06:08 |
| L6    | 11   | ("20050028984"   "2233077"   "2790500"   "6457529"   "6457530"   "6823941"   "6966383").PN. OR ("7201229").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2011/02/28<br>06:11 |
| L31   | 8    | (Apparatus and Method and Recovering and Fluids and well).ti.  | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2011/02/28<br>06:49 |
| S1    | 1    | (10/590563).APP.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT                      | OR               | OFF     | 2010/08/26<br>12:20 |

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| S2 | 6  | (production subsea) adj tree and wing adj block and lateral near3 port   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2010/08/26<br>21:23 |
| S3 | 32 | (production subsea) adj tree and lateral near3 port and choke  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2010/08/26<br>21:39 |
| S4 | 6  | ((("7080689") or ("20060065401") or ("20050100414")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>21:45 |
| S5 | 10 | ((("20030146000") or ("20030145997") or ("6321843") or ("5807027") or ("4832124")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:00 |
| S6 | 98 | ((("2233077") or ("2276883") or ("2790500") or ("3358753") or ("3688840") or ("3820558") or ("3957079") or ("4046191") or ("4099583") or ("4210208") or ("4291772") or ("4457489") or ("4503878") or ("4589493") or ("4702320") or ("4813495") or ("4832124") or ("4848475") or ("4899822") or ("5280766") or ("5299641") or ("5807027") or ("6053252") or ("6321843") or ("6457529") or ("6457530") or ("6651745") or ("6823941") or ("6966383") or ("7111687") or ("7210530") or ("7270185") or ("7569097") or ("7718676") or ("7740074")).PN. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:04 |
| S7 | 20 | ((("20030145997") or ("20030146000") or ("20040057299") or ("20050109514") or ("20040154790") or ("20050058535") or ("20050028984") or ("20070144743") or ("20080128139") or ("20090126938")).PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:05 |

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| S8  | 73   | ((("3101118") or ("3593808") or ("3608631") or ("4260022") or ("4405016") or ("4502534") or ("4607701") or ("4626135") or ("4646844") or ("4848473") or ("4874008") or ("5010956") or ("5143158") or ("5295534") or ("5535826") or ("5544707") or ("5868204") or ("5971077") or ("5992527") or ("6050339") or ("6109352") or ("6138774") or ("6145596") or ("6227300") or ("6296453") or ("6460621") or ("6497286") or ("6557629") or ("6612368") or ("7201229"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:10 |
| S9  | 23   | ((("5462361") or ("5678460") or ("5719481") or ("5944152") or ("6076605") or ("6116784") or ("6123312") or ("6637514") or ("7111687") or ("7270185") or ("7740074"))).PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:11 |
| S10 | 12   | ((("20010050185") or ("20020000315") or ("20020070026") or ("20040057299") or ("20040251030") or ("20050173322"))).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:11 |
| S11 | 16   | ((("1944573") or ("1994840") or ("2132199"))).PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/26<br>22:12 |
| S12 | 226  | S6 S7 S8 S9 S10 S11  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2010/08/26<br>22:12 |
| S13 | 4    | ("4403658").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/27<br>18:00 |
| S14 | 6    | ("2790500").URPN.  | USPAT  | OR | ON  | 2010/08/27<br>18:57 |
| S15 | 143  | (166/347).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/27<br>18:59 |
| S16 | 1263 | (166/368,360,344,338).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/27<br>18:59 |
| S17 | 441  | (166/347,344).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/27<br>19:00 |

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| S18 | 112 | (production subsea) adj tree and lateral and choke  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2010/08/27<br>19:03 |
| S19 | 246 | S15 S18   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2010/08/27<br>19:03 |
| S20 | 2   | ("6637514").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/27<br>20:04 |
| S21 | 22  | ("3101118"   "4260022"  <br>"4405016"   "4502534"  <br>"4607701"   "4848473"  <br>"4874008"   "5010956"  <br>"5143158"   "5535826"  <br>"5544707"   "5868204"  <br>"5971077"   "5992527"  <br>"6050339"   "6145596"  <br>"6227300"   "6460621").PN. OR<br>("7111687").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/27<br>20:41 |
| S22 | 42  | ("2546638"   "3115934"  <br>"3190354"   "3481395"  <br>"4491176"   "4703807"  <br>"5143158"   "5535826"  <br>"5544707"   "5865250"  <br>"5868203"   "5873415").PN. OR<br>("5992527").URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/27<br>20:44 |
| S23 | 197 | ("2092261"   "3101118"  <br>"3163224"   "3209829"  <br>"3211223"   "3215203"  <br>"3259198"   "3372761"  <br>"3474857"   "3587734"  <br>"3592014"   "3603409"  <br>"3638721"   "3870101"  <br>"4046191"   "4063602"  <br>"4149603"   "4284142"  <br>"4291772"   "4405016"  <br>"4436157"   "4527632"  <br>"4531593"   "4591292"  <br>"4595343"   "4611661"  <br>"4625806"   "4629003"  <br>"4630680"   "4676696"  <br>"4784525"   "4842075"  <br>"5143158"   "5535826"  <br>"5575336"   "5868204"  <br>"5873415"   "5884706"  <br>"Re27340").PN. OR ("4813495"  <br>"5255745"   "5299641"  <br>"5971077").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/27<br>21:14 |

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| S24 | 22  | ("3705623"   "3827486"  <br>"4887672"   "4942929"  <br>"5085277"   "5129469"  <br>"5213162"   "5226478"  <br>"5255745"   "5339912"  <br>"5341882"   "5372199"  <br>"5544707"   "5613242"  <br>"5662169"   "5884715"  <br>"5971077"   "6039119").PN. OR<br>("6484807").URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/08/27<br>21:29 |
| S25 | 26  | ("3295600"   "3305015"  <br>"3414056"   "3592263"  <br>"3595311"   "3638732"  <br>"3921500"   "4003428"  <br>"4331203"   "4391330"  <br>"4770248"   "5052941").PN. OR<br>("5213162").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/08/27<br>21:34 |
| S26 | 315 | (christmas xmas subsea) adj tree<br>and choke and land\$3 and valve  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/08/27<br>21:47 |
| S27 | 122 | (christmas xmas) adj tree same<br>subsea and choke and land\$3<br>and valve  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/08/27<br>21:48 |
| S28 | 83  | tree and subsea and choke and<br>land\$3 and wing adj valve  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2010/08/27<br>22:07 |
| S29 | 32  | ("3360048"   "3662822"  <br>"4429746"   "4632188"  <br>"4887672"   "4942929"  <br>"5004051").PN. OR ("5085277").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/08/27<br>22:24 |
| S30 | 68  | ("2092261"   "2546638"  <br>"3101118"   "3115934"  <br>"3190354"   "3211223"  <br>"3474857"   "3481395"  <br>"4405016"   "4491176"  <br>"4703807"   "5143158"  <br>"5535826"   "5544707"  <br>"5575336"   "5865250"  <br>"5868203"   "5868204"  <br>"5873415"   "5884706").PN. OR<br>("5971077"   "5992527").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2010/08/27<br>22:53 |

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| S31 | 60 | ("3339632"   "3347311"  <br>"3437149"   "3486556"  <br>"3633667"   "3638732"  <br>"3839608"   "4080025"  <br>"4117287"   "4154302"  <br>"4331203"   "4363168"  <br>"4391330"   "4411454"  <br>"4444218"   "4462464"  <br>"4494602"   "4525918"  <br>"4661017"   "4682913"  <br>"4770248"   "4804045").PN. OR<br>("4899822"   "5280766").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/27<br>23:14 |
| S32 | 60 | ("3339632"   "3347311"  <br>"3437149"   "3486556"  <br>"3633667"   "3638732"  <br>"3839608"   "4080025"  <br>"4117287"   "4154302"  <br>"4331203"   "4363168"  <br>"4391330"   "4411454"  <br>"4444218"   "4462464"  <br>"4494602"   "4525918"  <br>"4661017"   "4682913"  <br>"4770248"   "4804045").PN. OR<br>("4899822"   "5280766").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/27<br>23:14 |
| S33 | 37 | ("3052299"   "3298092"  <br>"3358753"   "3481396"  <br>"3543847"   "R026668").PN. OR<br>("3710859").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/28<br>07:13 |
| S34 | 16 | ("3358753").URPN.   | USPAT  | OR | ON  | 2010/08/28<br>07:30 |
| S35 | 12 | ("3547189"   "3585958"  <br>"3605415"   "3724061").PN. OR<br>("3953982").URPN.  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2010/08/28<br>07:31 |
| S36 | 15 | ((("4096192") or ("20090260831")<br>or ("7658228") or ("4401164") or<br>("4721163") or ("4874009")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/29<br>18:26 |
| S37 | 4  | ((("4901164") or ("4879009")).<br>PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/29<br>18:30 |
| S38 | 6  | ((("4401164") or ("4874008")).<br>PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/29<br>18:30 |
| S39 | 3  | ("4046192").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2010/08/29<br>18:31 |

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